

**New York State Department of Transportation
Yellow Flag NB2222W004**

By: Sahadeo Bhagwandin
Flag Date: March 28, 2022

Superseding Information:

This flag supersedes: YF NB2197W029

Structure Information

BIN: 1065318 **Region:** 11 - NEW YORK CITY
Feature Carried: 278I278IX2M23027 **County:** KINGS
Feature Crossed: 6TH AVENUE **Political Unit:** City of NEW YORK
Orientation: 8 - NORTHWEST **Approximate Year Built:** 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: March 28, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Sahadeo Bhagwandin, P.E. 088239-1

Date: April 12, 2022

Reviewed By: Robert Kemp

Date: April 12, 2022

Attachments: 8

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 247			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB2222W004 is superseding Yellow Flag No. NB2197W029

Location: Span 247, Girder G19 at Pier 247

Description: The right connection angle at Girder G19 to the pier cap at Pier 247 exhibits a 5" H x 3/4" W vertical corrosion crack at the lower fillet section (no change from the previous inspection) and an 8.25" H x 3/4" W vertical corrosion crack at the upper fillet section (no change) (Photos 2 and 3). The remaining 1.25" of the connection angle height exhibits up to 90% section loss.

The left connection angle exhibits a corrosion crack at the top measuring 2" L x 1/2" W that extends to a 2.5" long crack directly below (previously noted to be 2.25" long) (Photos 4 and 5). Additionally, there is a 5" H x 1/2" W corrosion crack at lower portion of fillet. The remaining area of the connection angle exhibits up to 40% section loss.

There has been no significant changes since the previous inspection.

Notes:

1. The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 19.5" inches and thickness of 0.606 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk. All dimensions were measured in the field.
2. The adjacent Girder G18, is 5'-5" on center, has repair plates and is in good condition.
3. The adjacent Stringer S2, approximately 24" on center, acts as a support for the railing and curb area above. The web of the stringer exhibits up to 15% section loss along the connection angle. The bottom flange exhibits 2.25" L x 0.75" W corrosion hole in the left angle. Overall section loss of the bottom flange is approximately 30% for 1' long section.
4. A double left lane closure on 3rd Avenue Eastbound between 22nd and 23rd streets with shadow vehicle and a 30' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

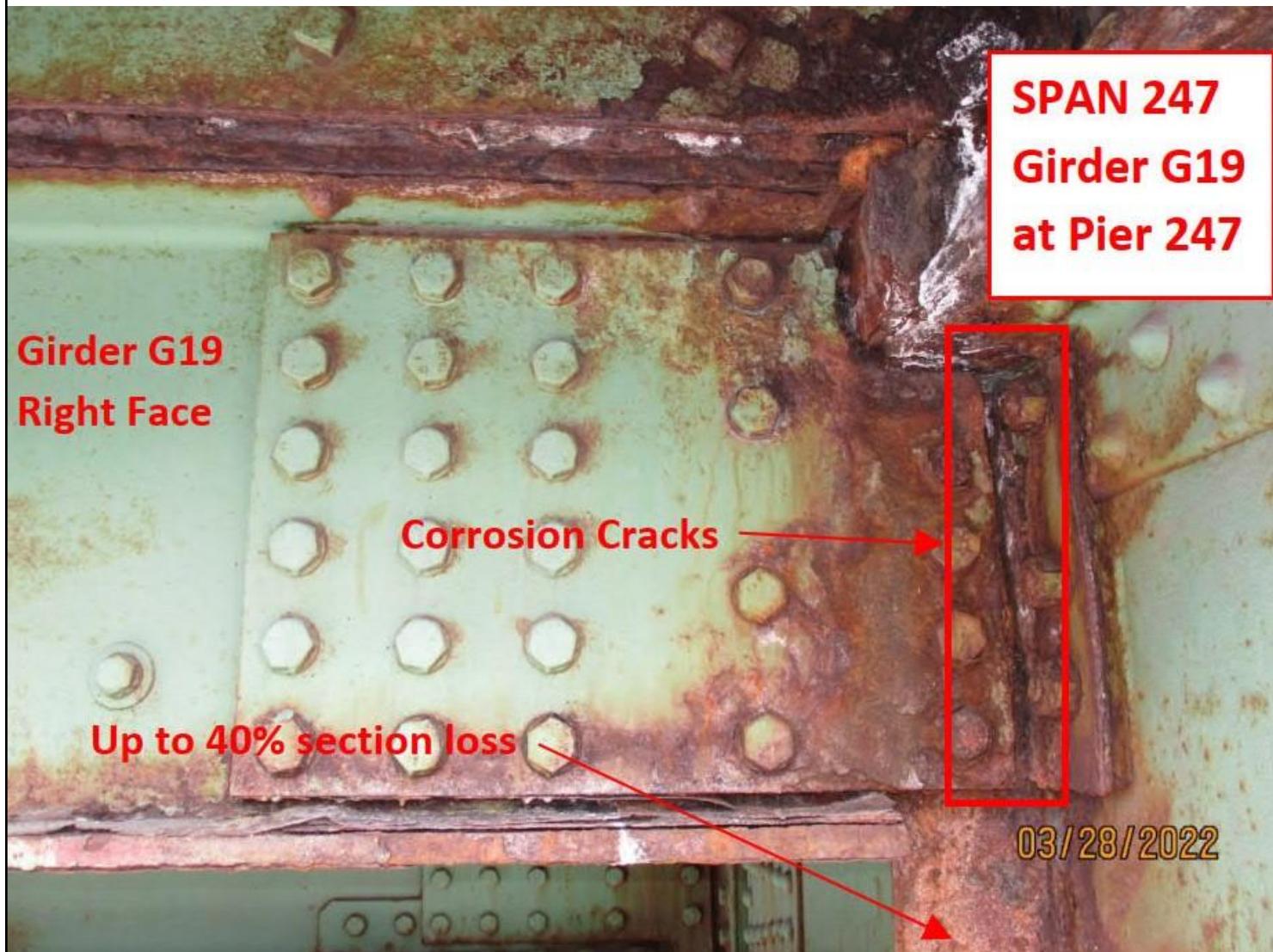
Photo Filename: Photo 1-4494 edited.jpg



Attachment Description: Span 247, Girder G19 at Pier 247. General view of flagged location at the pier cap connection. Looking end left.

Photo Number: 2

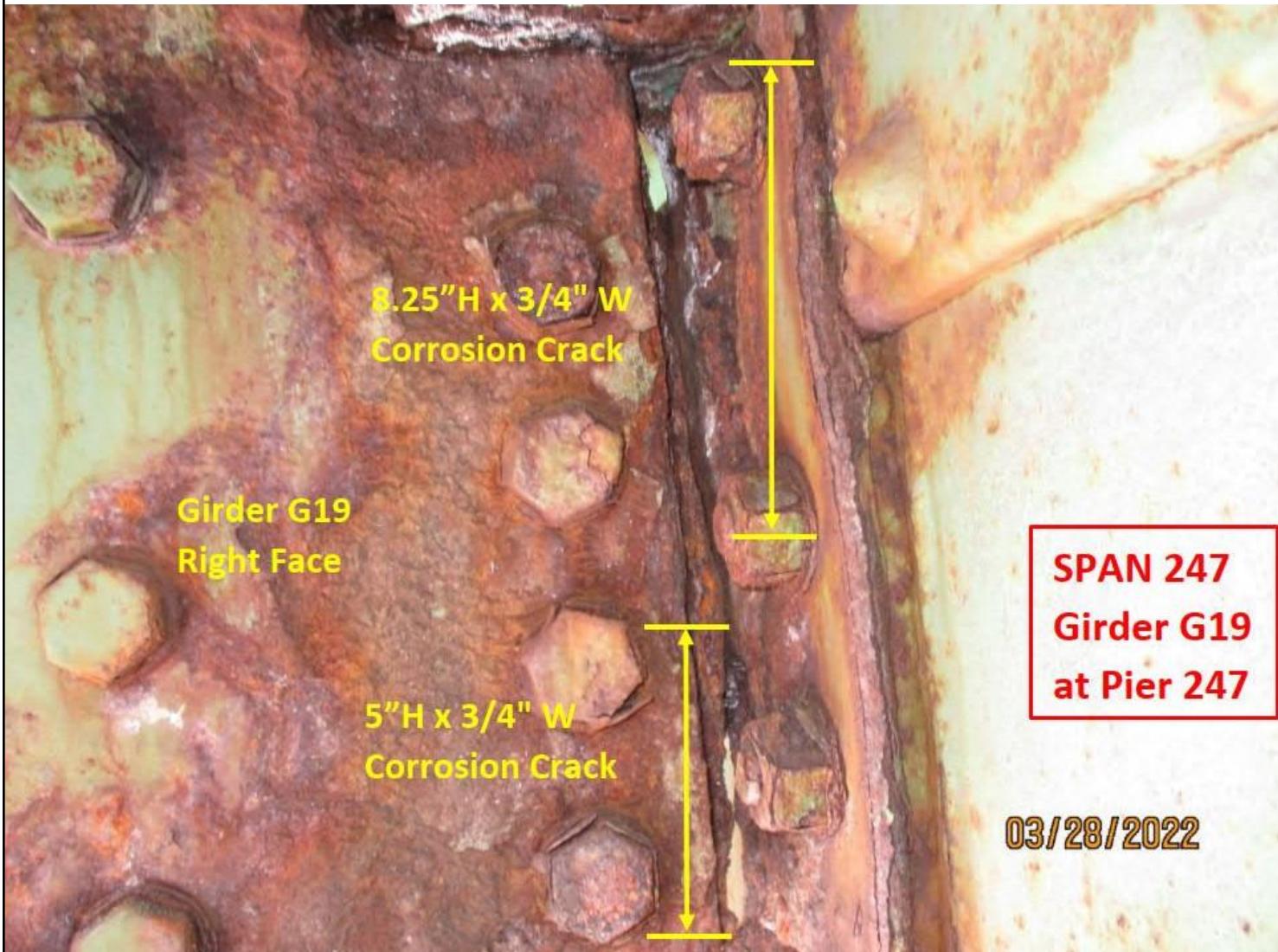
Photo Filename: Photo 2-4565 - edit.jpg



Attachment Description: Span 247, Girder G19 at Pier 247. Close-up view of flagged location. Looking left.

Photo Number: 3

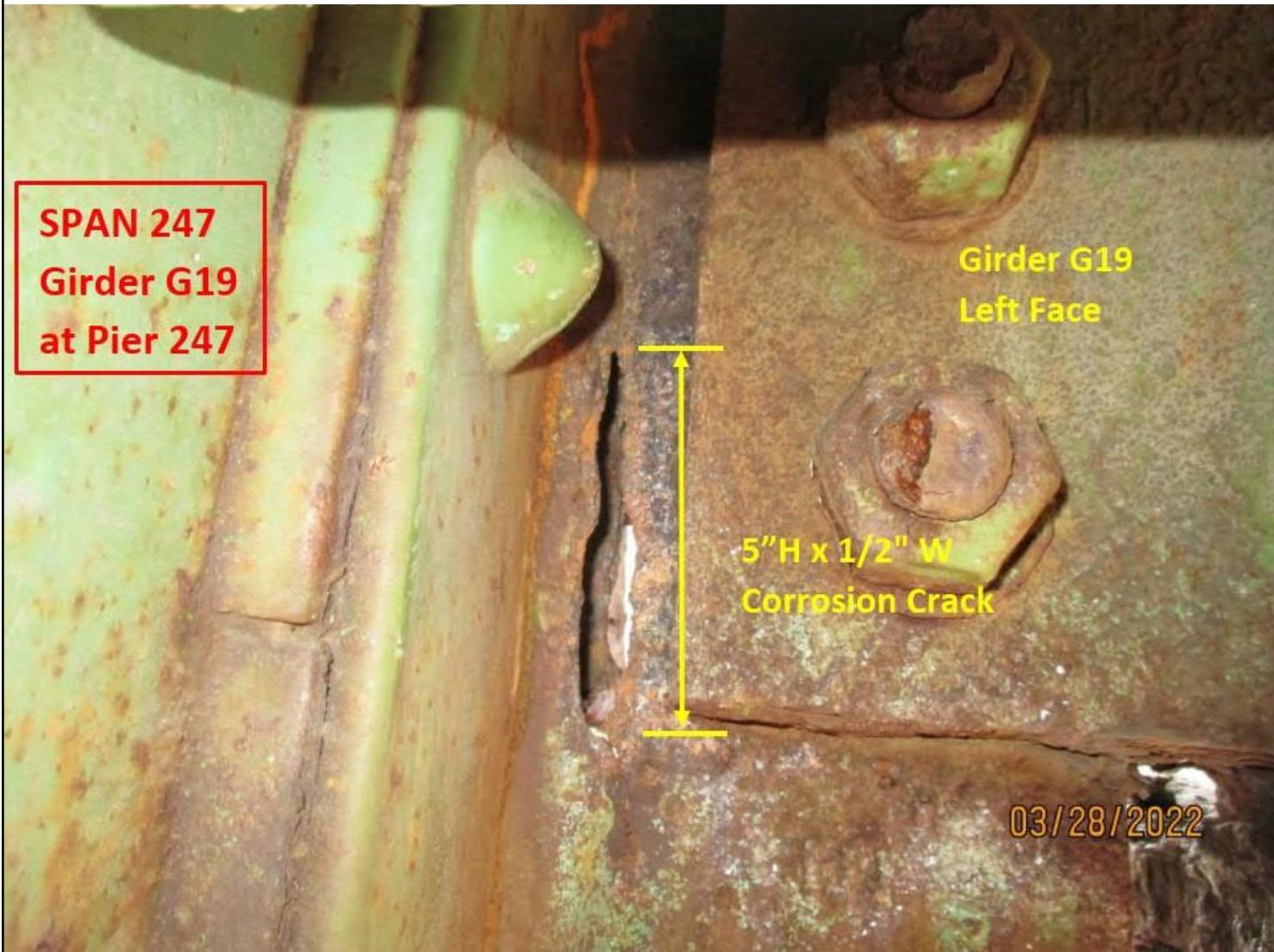
Photo Filename: Photo 3-4528.jpg



Attachment Description: Span 247, Girder G19 at Pier 247. Close-up view of Corrosion Cracks and heavy section loss of the right connection angle. Looking left.

Photo Number: 4

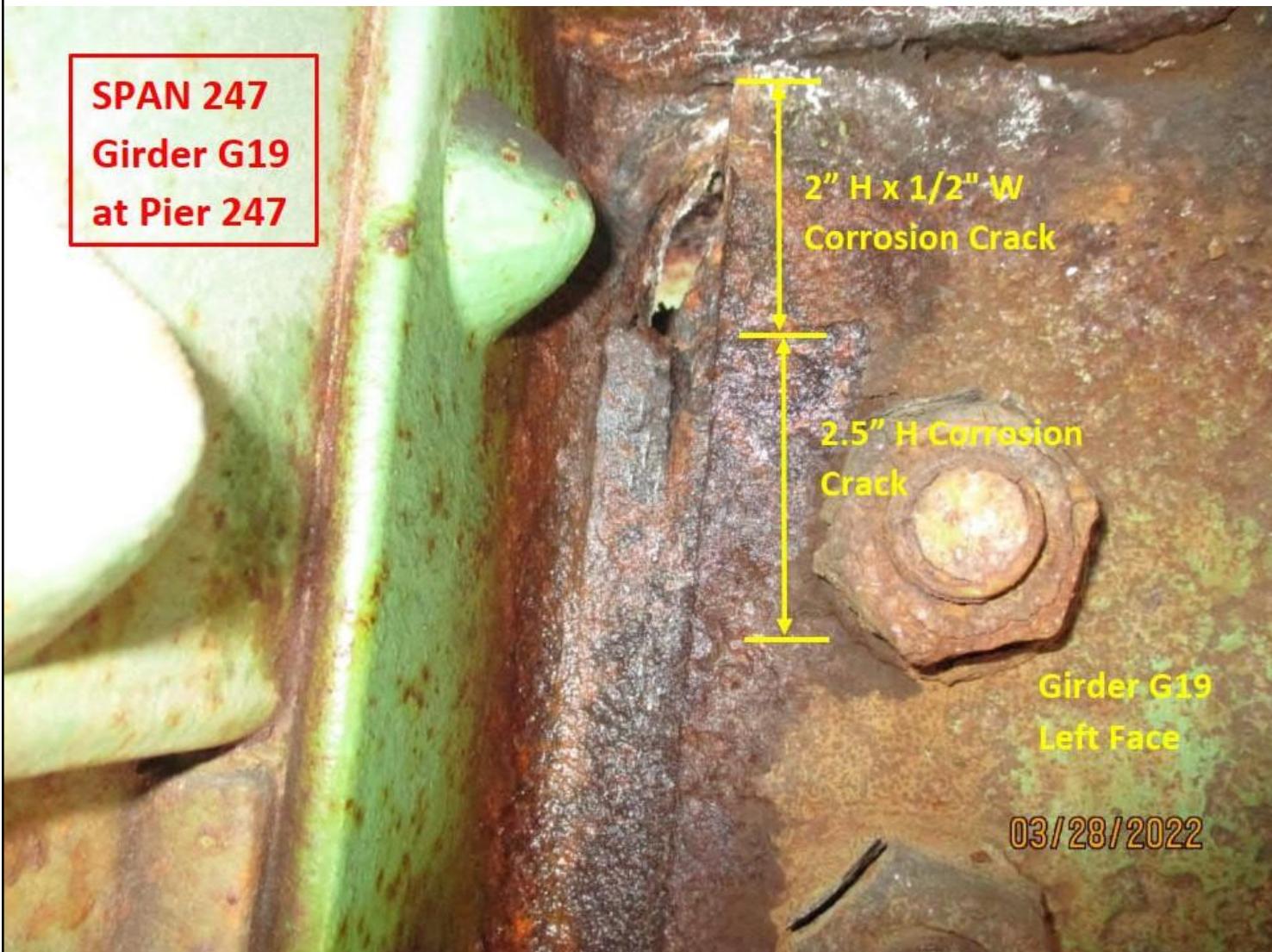
Photo Filename: Photo 4-4501.jpg



Attachment Description: Span 247, Girder G19 at Pier 247. Close-up view of corrosion crack and heavy section loss of the left connection angle, lower section. Looking Right.

Photo Number: 5

Photo Filename: Photo 5-4504.jpg



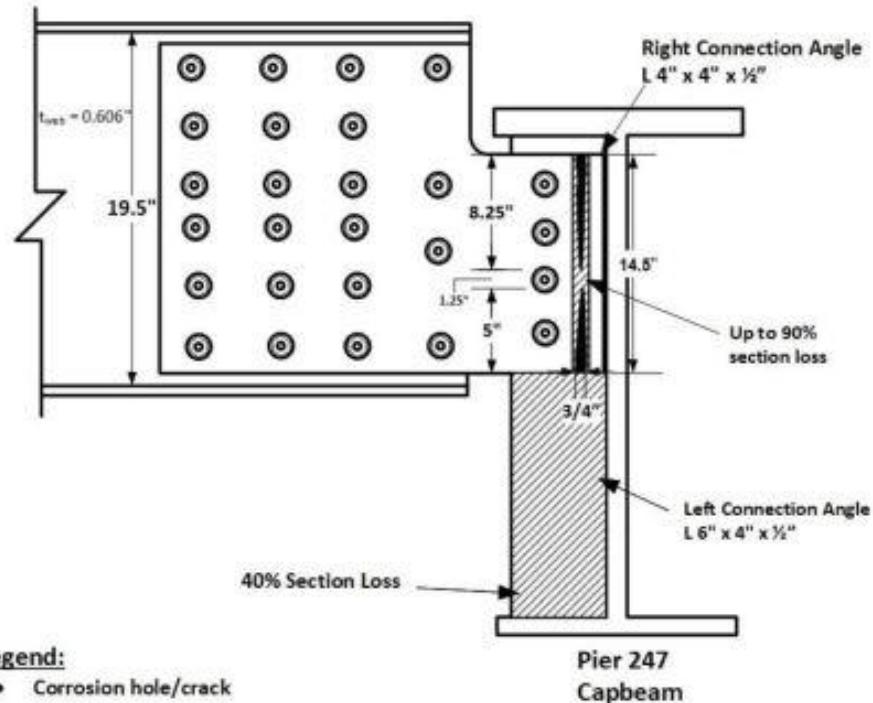
Attachment Description: Span 247, Girder G19 at Pier 247. Close-up view of corrosion crack and heavy section loss of the left connection angle, upper section. Looking Right.

Photo Number: 6

Photo Filename: Span 247 G19 at Pier 247 Looking Left Sketch--1.JPG

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Span 247, Girder G19 at Pier 247
(Looking Left)
N.T.S

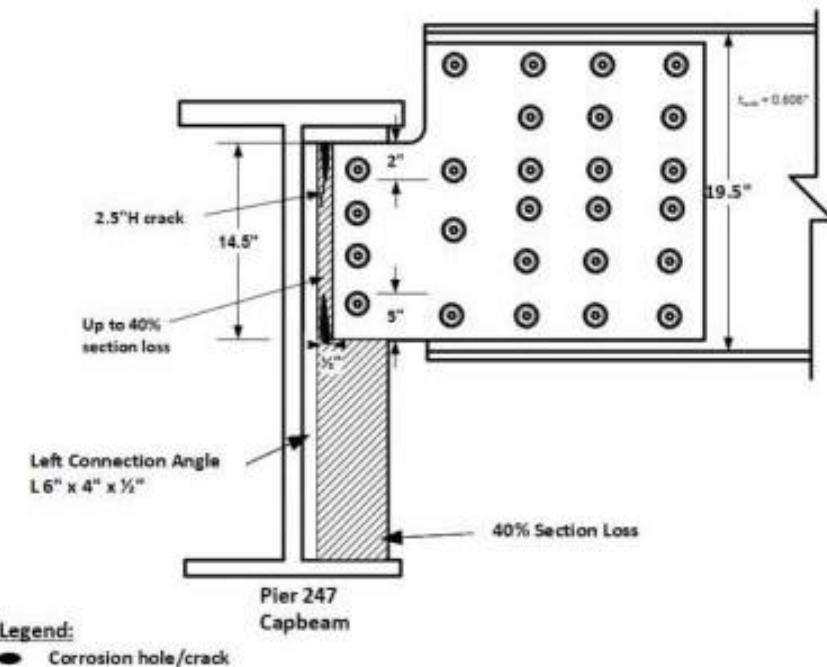
Attachment Description: Span 247 G19 at Pier 247 Sketch Looking Left

Photo Number: 7

Photo Filename: Span 247 G19 at Pier 247 Looking Right Sketch--1.

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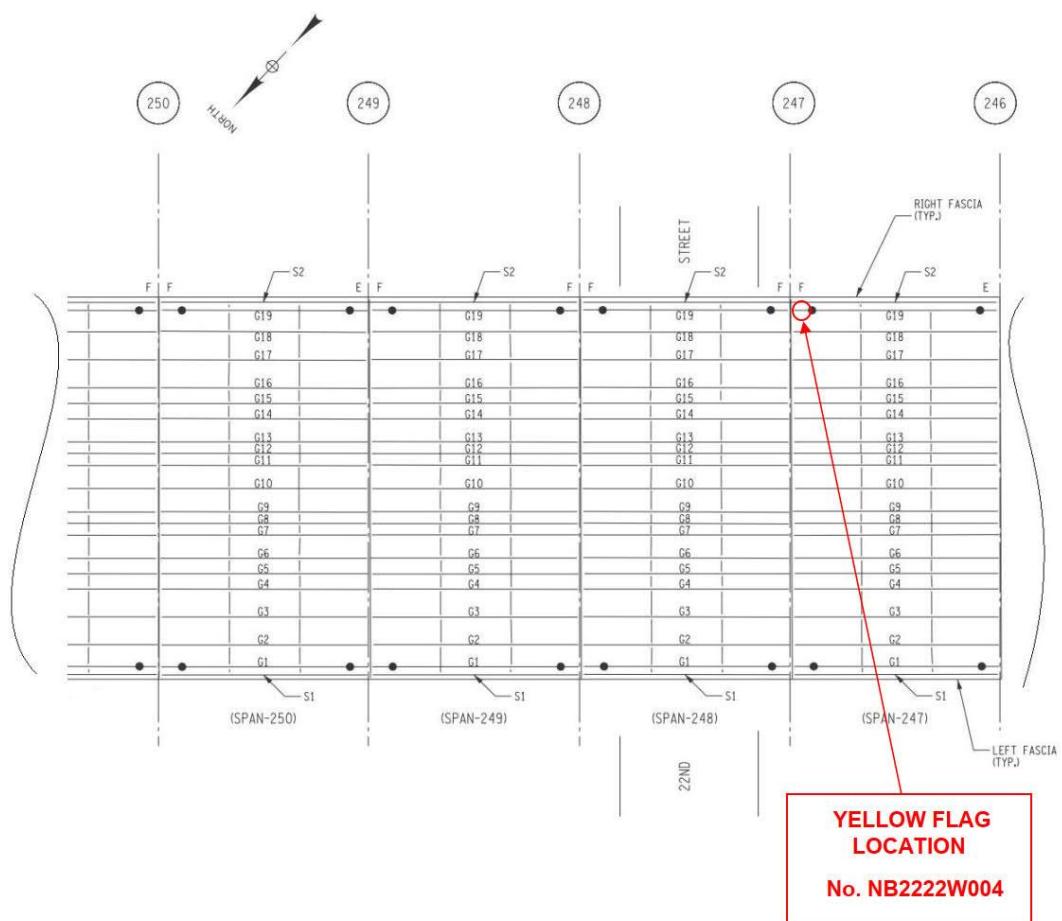
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Span 247, Girder G19 at Pier 247
(Looking Right)
N.T.S

Attachment Description: Span 247 G19 at Pier 247 Sketch Looking Right

Photo Number: 8

Photo Filename: Span 247 G19 at Pier 247 Framing Plan.jpg



Attachment Description: Span 247 G19 at Pier 247 Framing Plan